

FIG. 1A (PRIOR ART)

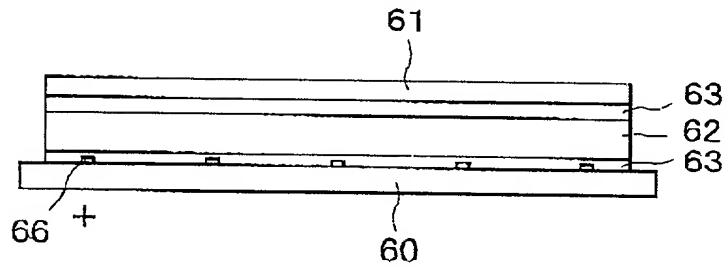


FIG. 1B (PRIOR ART)

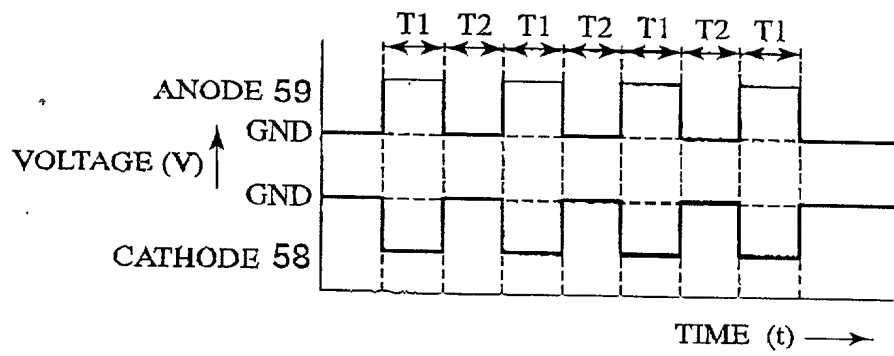


FIG.2 (PRIOR ART)

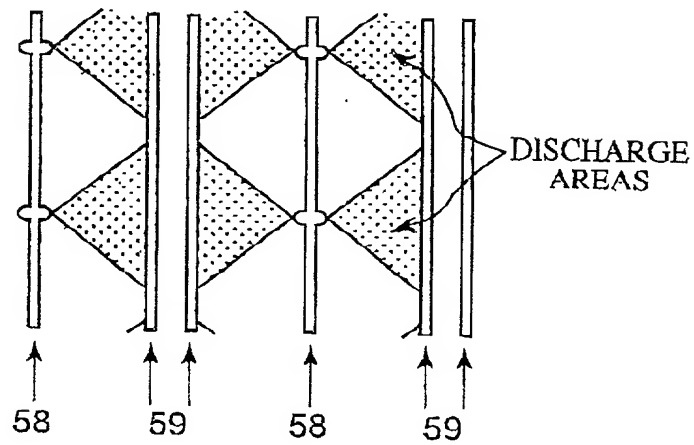


FIG.3 (PRIOR ART)

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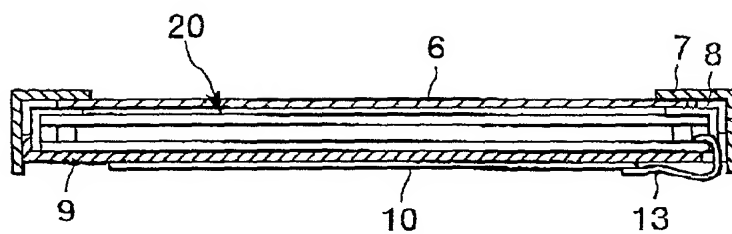


FIG. 4

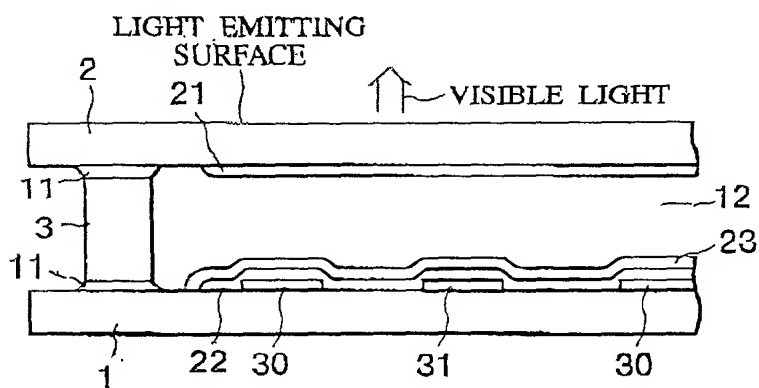


FIG. 5

10074756-034202

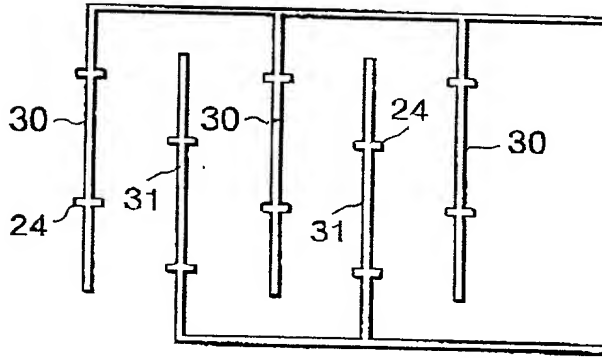


FIG.6

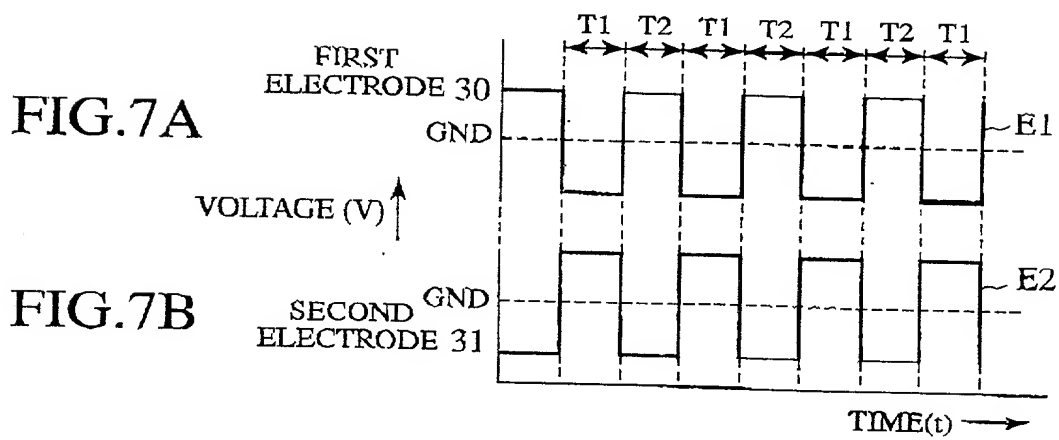


FIG.7A

FIG.7B

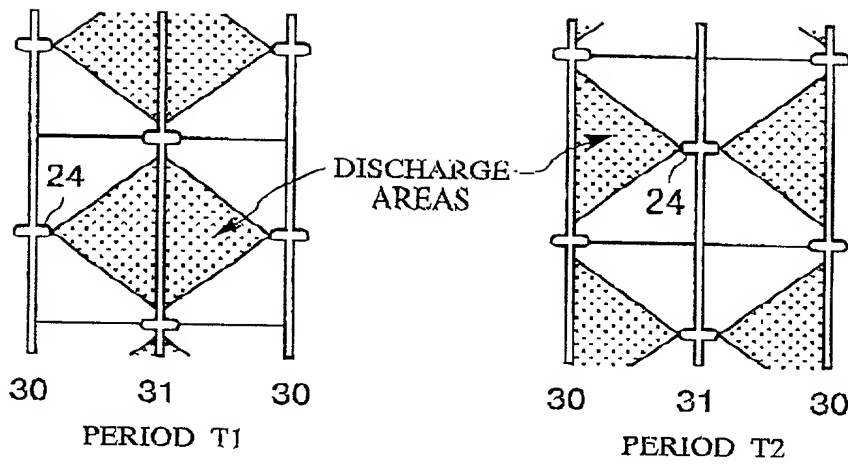


FIG. 8A

FIG. 8B

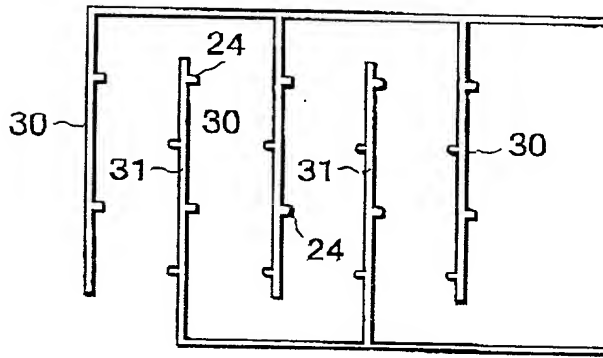


FIG. 9

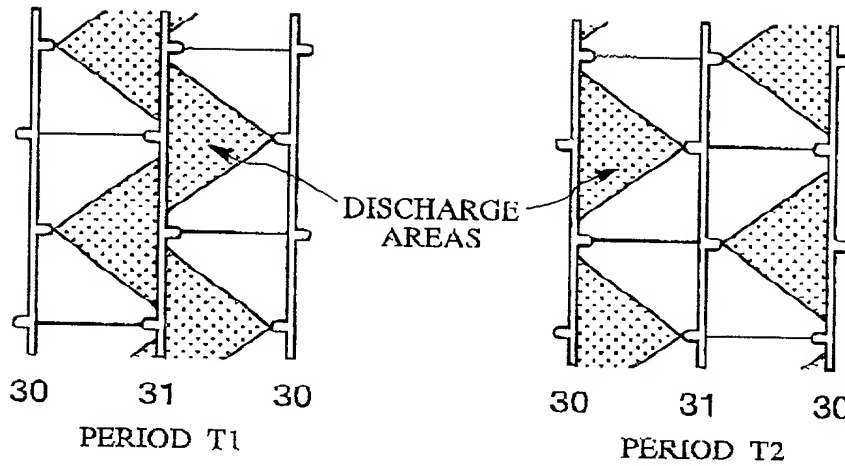


FIG. 10A

FIG. 10B

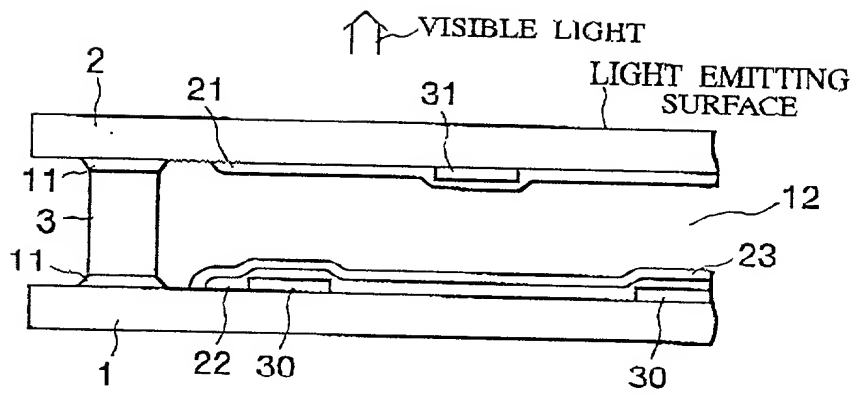


FIG.11

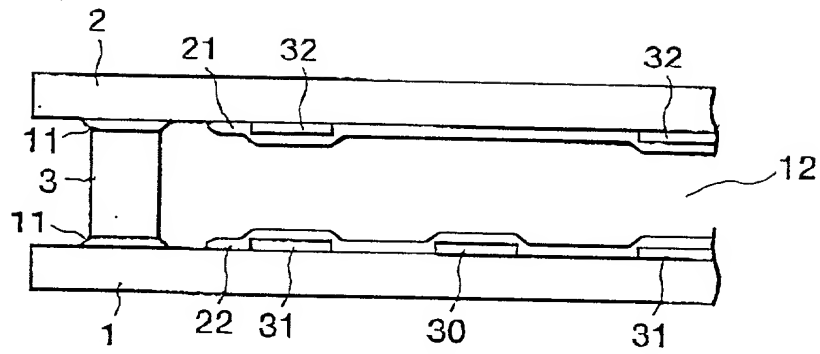


FIG. 12

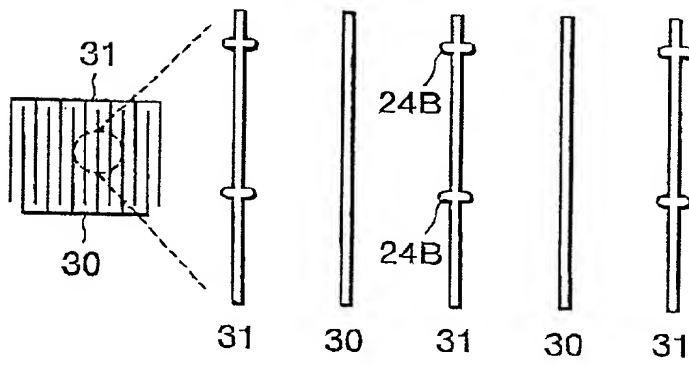


FIG. 12A

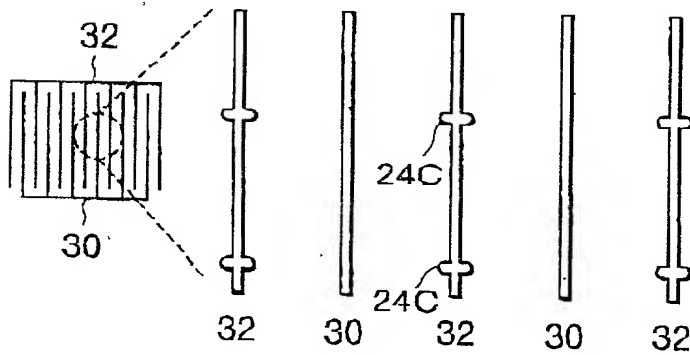


FIG. 12B



FIG. 13B

FIG.13C

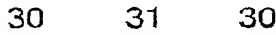


FIG. 14A

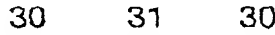
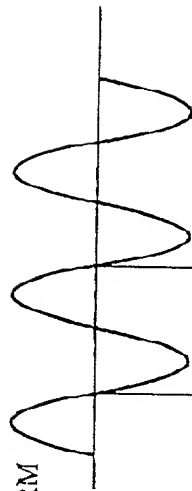


FIG. 14B

DRIVING
WAVEFORM

FIG. 15A



FREQUENCY : SEVERAL TEN kHz TO SEVERAL HUNDRED kHz
(CYCLE : SEVERAL TEN μ s TO SEVERAL HUNDRED μ s)

SEVERAL HUNDRED Hz

(PWM LIGHT ADJUSTING CYCLE : SEVERAL TEN ms TO SEVERAL ms)

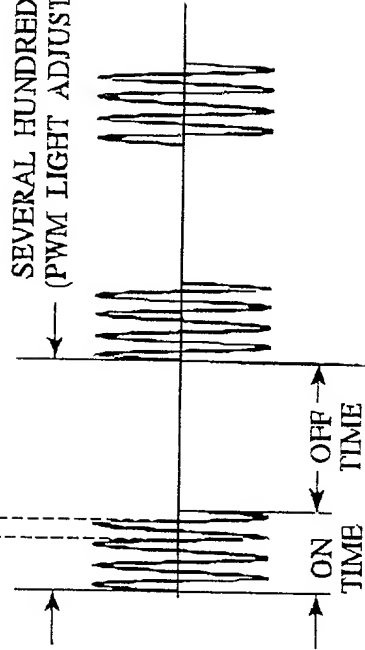
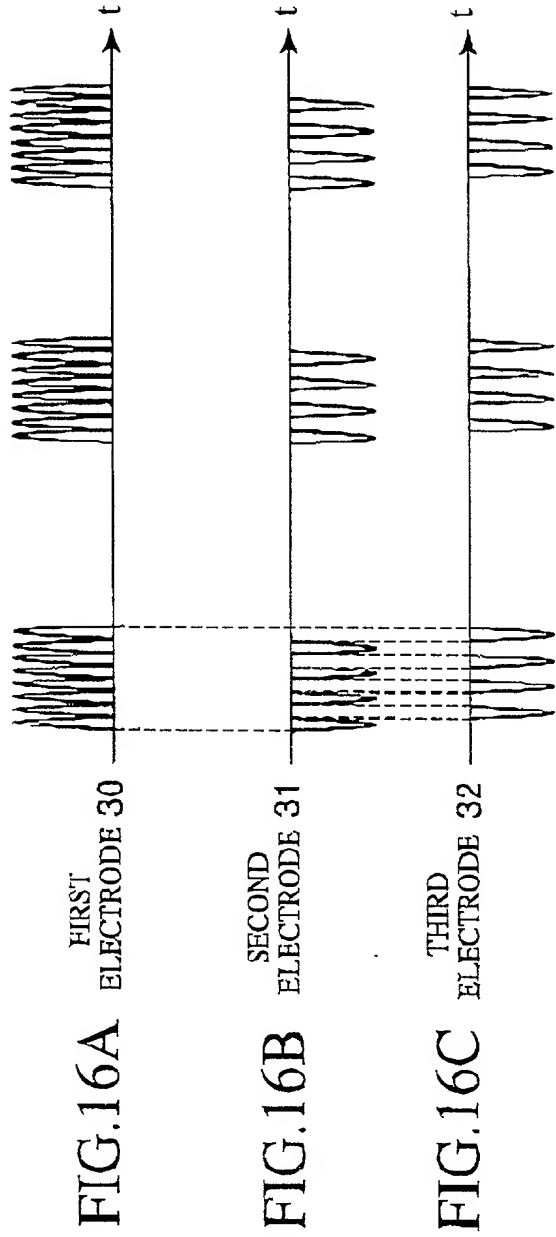


FIG. 15B

FOR EXAMPLE, 10% LIGHT ADJUSTING DEGREE MEANS
EQUATION " ON TIME / PWM LIGHT ADJUSTING CYCLE = 10% " IS SATISFIED



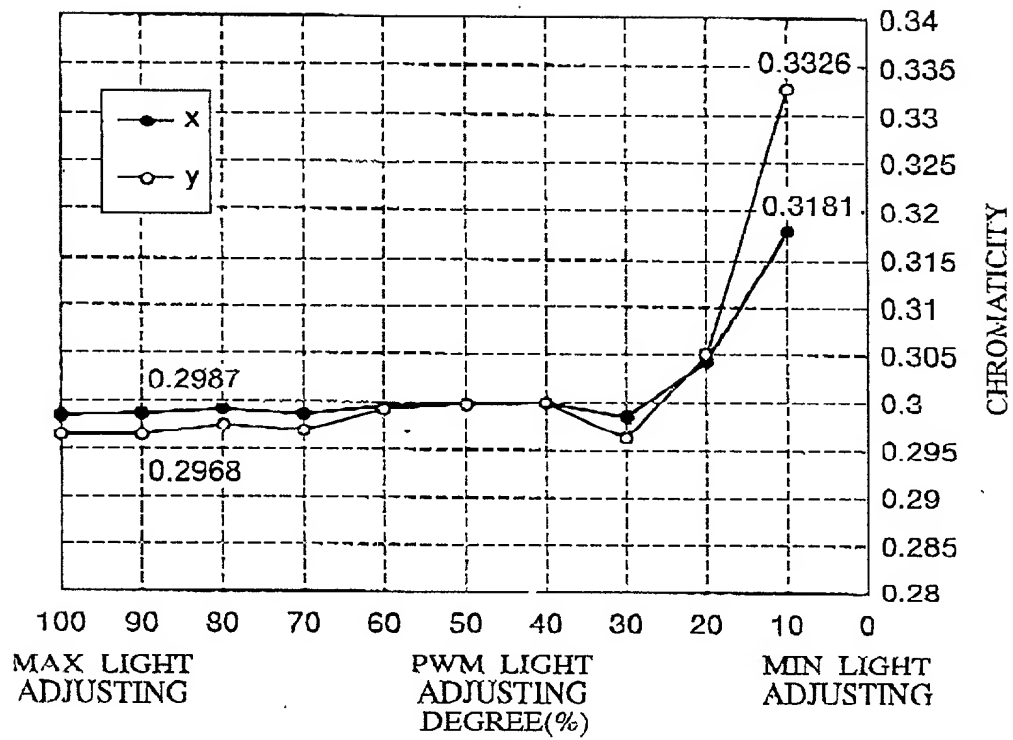


FIG.17

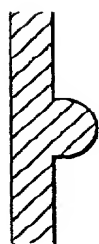


FIG. 18A



FIG. 18B

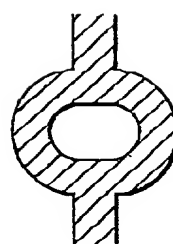


FIG. 18C

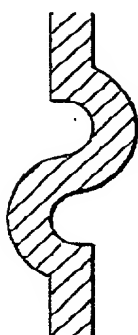


FIG. 18D

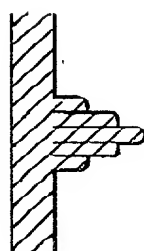


FIG. 18E

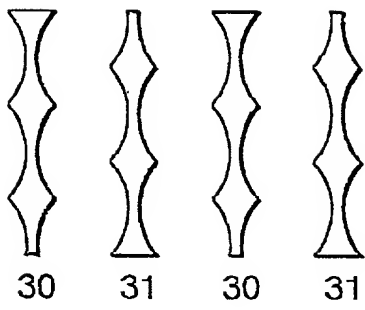


FIG. 19A

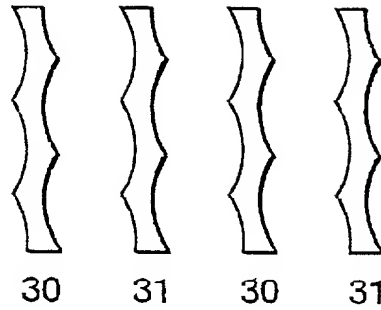


FIG. 19B

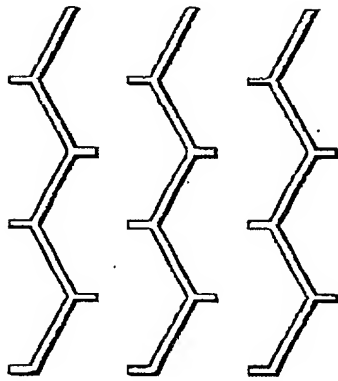


FIG. 19C

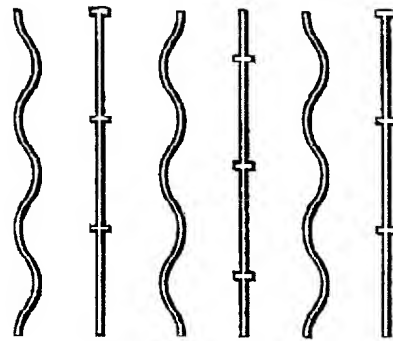


FIG. 19D